

PHENIX WEEKLY PLANNING

5/22/2008 Don Lynch



Shutdown '08 Schedule

Shutdown Prep Mu Trigger, RPC Prototype Installation, New Beampipe, CM Crane, Sta. 1 and MMN Scaffolding Reviews RPC Prototype C tests (in tent) Install/field fit CM access stairs Build MMN scaffolding Build Sta. 1 N. scaffolding MuTr Decapacitations (Sta. 1 N and MMN) RPC Prototype D tests (in tent) Design RPC installation fixtures & MuTrigger FEE platforms Prep work for Mutrgr platforms (water/elec) Prep work for RPC proptotype install move (7) MuID pipes move gap 5 south cable tray

All Done, Action Items in progress in progress in progress 5/22 5/26 6/2 Apr-May In progress May-June May-June

May 30

Done

End of run Party



Shutdown '08 Schedule, cont'd

Prep RPC Proto, MuTrggr FEE N&S Racks Apr-July RPC engineering & safety review mid June MuTrigger FEE N Install July - Aug. Install MuTrigger N cooling water & air July - Aug. July - Aug RPC prototype gas system Move shielding for RPC prototype installation July - Sep RPC prototype cable routing & support July - Aug Modify crystal palace & vapor barrier July - Aug Install MuTrigger FEE N platform&Rack **July 15 - Aug 1** RPC prototype install Sep.-Oct. (RPC2 - PHENIX) (RPC3 - C. Pearson) Install RPC prototype rack in tunnel south Sep. Install Mutrigger FEE's in MMS for RPC test Sep. Install MuTrigger FEE South platform Sep. Install MuTrgr S rack cooling & electric Sep. **HBD** Install Sep.-Oct. Connect electronics/gas/water/air for RPC Sep. - Nov. Sep. - Nov Install MuTrigger N& 5 racks PC1 west work (needs planning) Sep. - Nov. CM Crane Install Oct. DC East?/West Repairs Oct. - Nov. Replace tunnel shielding Nov. (C. Pearson)



Shutdown '08 Schedule, cont'd

Remove all inst'n equipment(e.g. scaffolds)	Oct Nov
Gap 5 north piping and cable tray re-loc.	Oct Dec.
Gap 2 north cable tray & crate re-mounts	Oct Dec
Fan Tray maintenance	Oct Dec.
Prep for shutdown 2009	Nov Dec
Prep for run 9	Dec
Close shield wall start shifts	Dec.
Start physics	Jan 1

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Shutdown '08 Electrician Work

- 1) Install 30KVA UPS in Rack Room.

 Done
- 2) Install HVAC cooling and/or fan power circuits into RPC tent. Install fans/cooling units.
- 3) Run Power to new MuTrgr FEE racks on MMN and MMS
- 4) Install <u>power</u> and <u>signal</u> cable tray (ceiling suspended) for new DCM rack row north of existing DCM racks.
- 5) Assist in signal cable installation for MuTr/RPC upgrades as necessary.
- 6) Upgrade power capacity of Central Magnet power distribution for future bridge rack loads.
 - a) Remove existing 15KVA transformer and install 45KVA unit.
 - b) Install new (larger size) power cable from rack room to Central Magnet distribution breaker panels.
- 7) Install power feeds to RPC north & south tunnel racks from IR power panels.
 NOTE: MuTr north power panel has no available breakers to feed north tunnel racks (south panel has spare breakers for use). More engineering analysis is required to determine if the north power panel should be increased in size or for installation of a sub panel branch can be accomplished.
- 8) Install 120 volt AC power drops into new control room annunciator alarm rack (rack room).

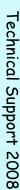


Work Permit Requirements

- CM Crane Installation
- · RPC Prototype Installation
- HBD re-installation
- PC1 Repairs

These WP's not needed until Sept.

(More will be needed - to be added to the list as appropriate)





PHENIC Engineering and Technical Support Group



Spreadsheets updated, please review/correct/return to D. Lynch ASAP.

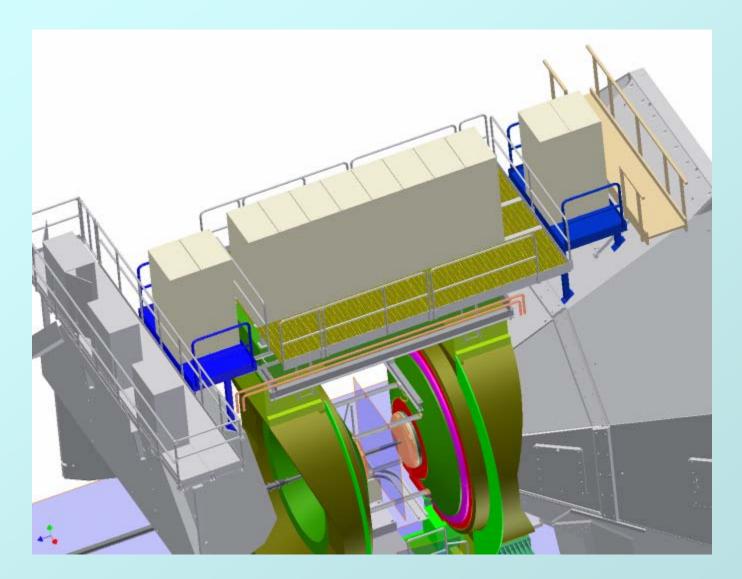
Shutdown Work \$\$\$

Projects Include:

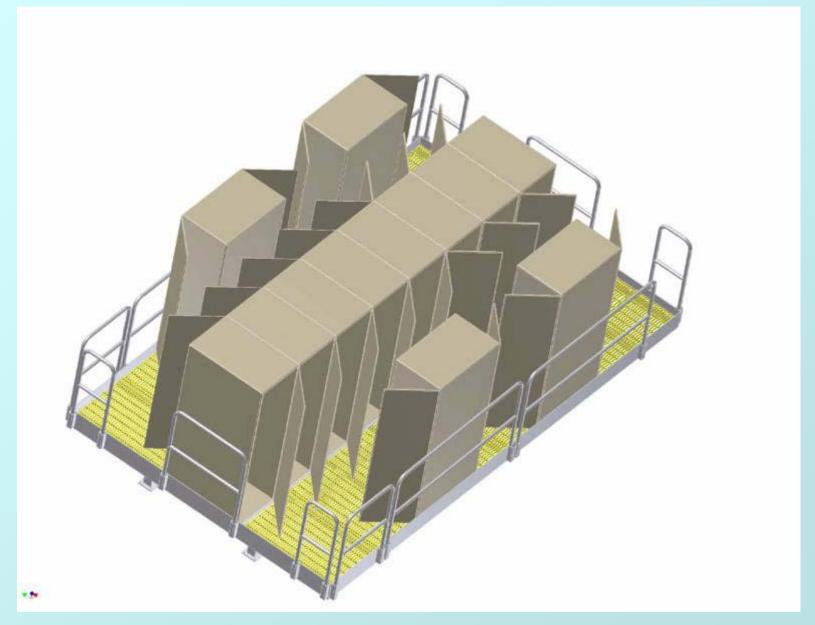
- 1. CM Crane
- 2. New 40 mm ID beampipe
- 3. RPC Factory
- 4. RPC Prototype Installation
- 5. RPC Final Installation
- 6. MuTrigger FEE Upgrade
- 7. CM Access Stairs
- 8. MuTr Decapitations
- 9. Gas House Reorganizationmaintenance
- 10. Bridge Rework
- 11. HBD Re-installation
- 12.DC East & West Repairs
- 13.PC1 Repair
- 14. Rack room UPS upgrade
- 15. Bridge Power upgrade
- 16. Rack Room Update
- 17. Detector Rack Fan tray replacement
- 18. Safety System Upgrade
- 19. Cooling Water system upgrade
- 20.DAQ/Trigger Upgrade
- 21.DCM II Development
- 22.VTX support
- 23.FVTX support
- 24.NCC support



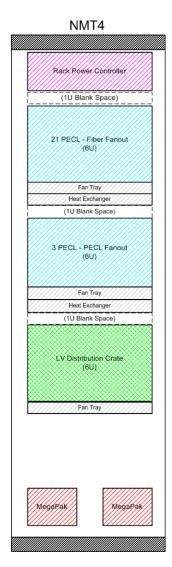
MuTrgr North FEE Rack Platform

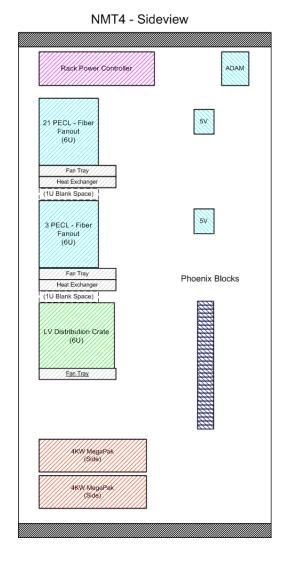






MuTrigger North Rack



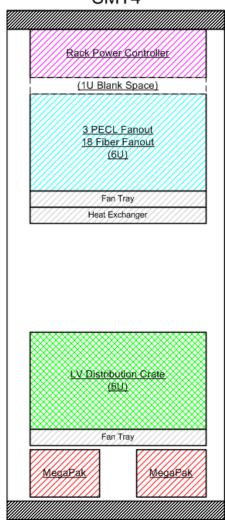


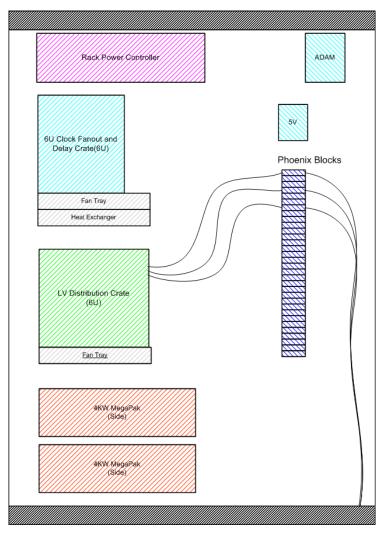
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MuTrigger South Rack

SMT4 (Sideview)

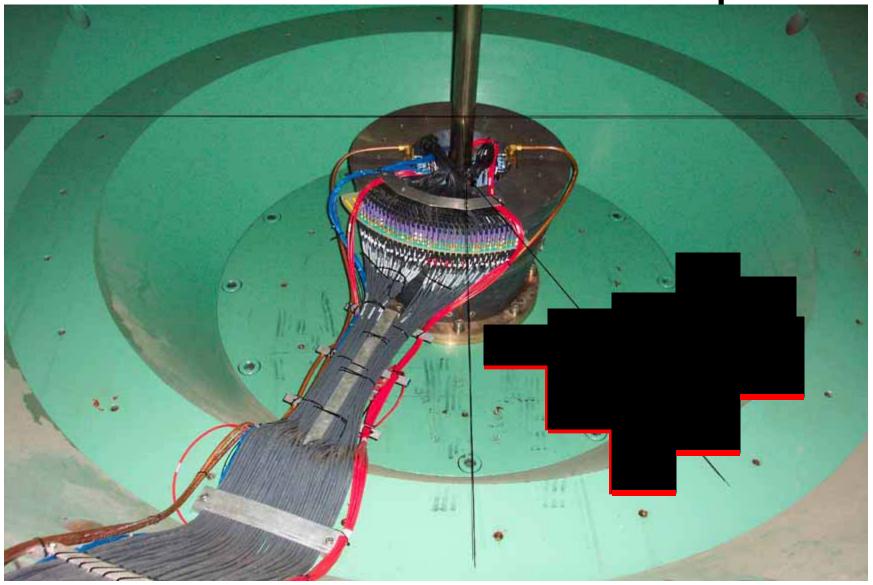
SMT4





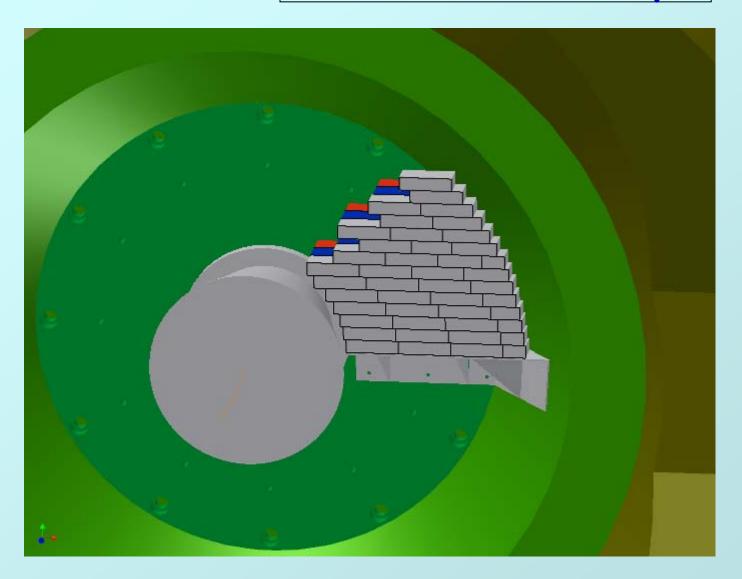
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Shelf & Pb brick concept



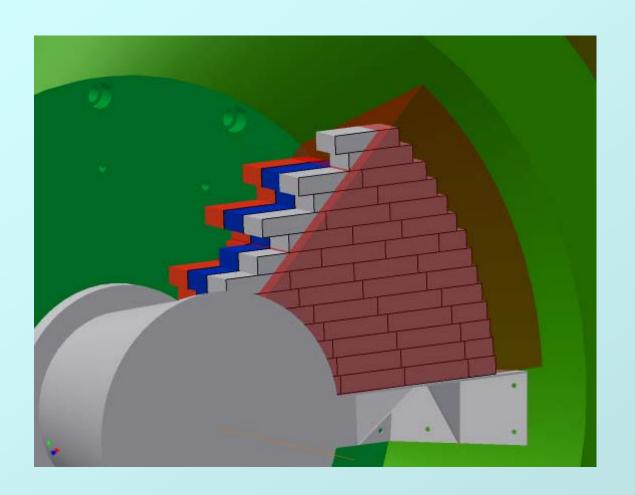


RPC Absorber Concept





RPC Absorber Concept



Uses 112 2x4x8 PB bricks, 22 need to be cut

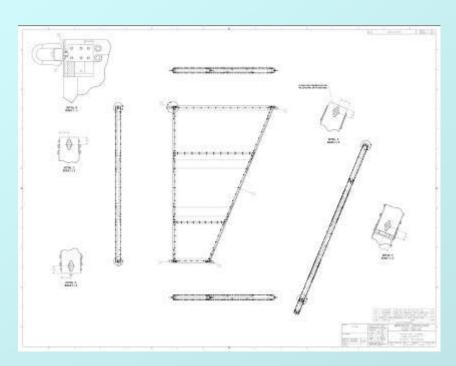
12 inches deep (RPC group requsted 35 mm (13.8 in)



RPC Prototype

Rec'd dim's and lifting points from Larry B.

Need to decide on prototype orientation and alignment for Sta 1 & 2 based on absorber location.





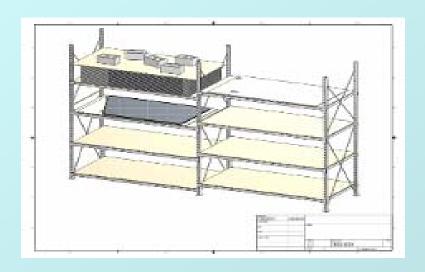
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RPC Factory Support, cont.

(2) ~1 Ton thru-the-wall AC's available from CA-D

208V Need isolated electrical source

Storage Shelving: 2 additional sets rec'd. Kenny is assembling them.





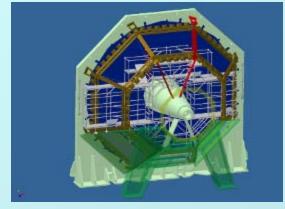
Combined CM Crane, MMN & Station 1 scaffolding Review







Crane installation Postponed until fall





Station 1 platforms rec'd. Remaining components due ~5/28

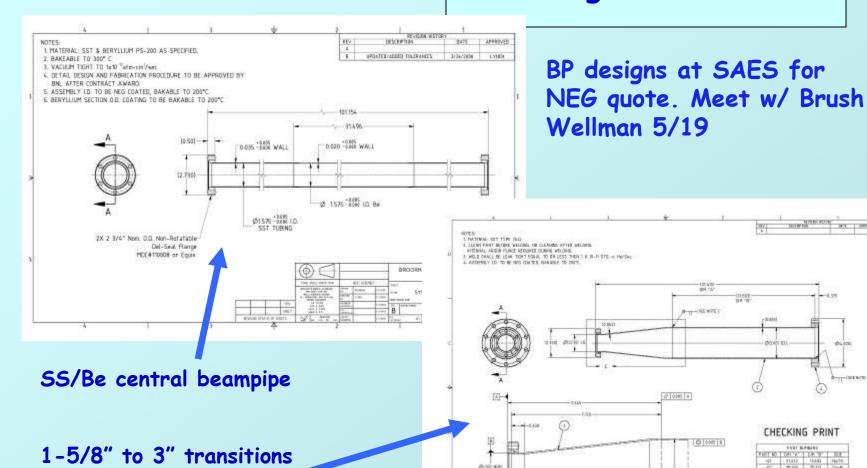
WP is approved

Station 2/3 construction is underway



New Beampipe Design & Review

DETAIL E



Drawings Done, C-A getting

Quotes for NEG coating

DRODGINGER SATIONAL LACORATORY

CHECKING PRINT

PART MARKET



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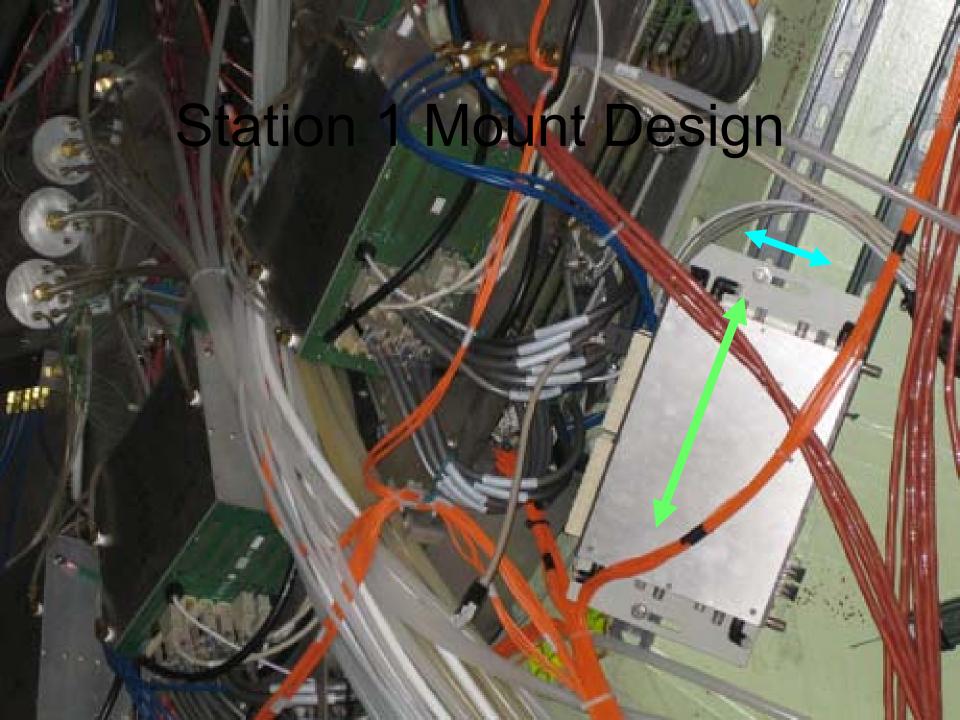
Station 1 MuTrigger FEE's



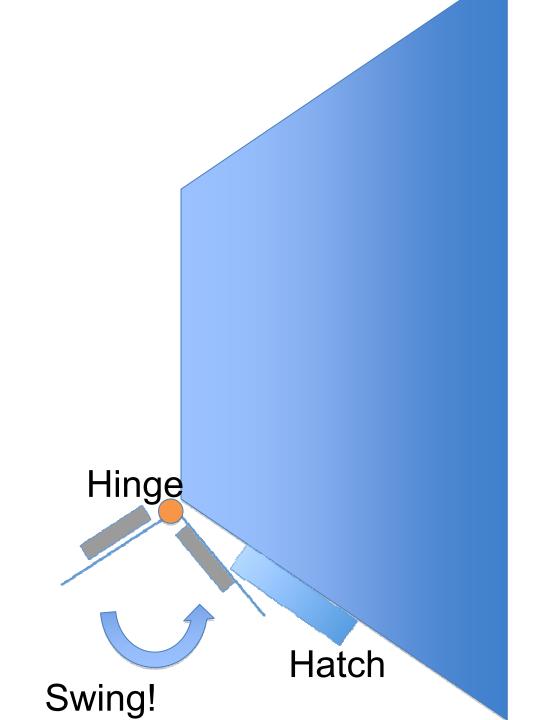


Station-1 Mount

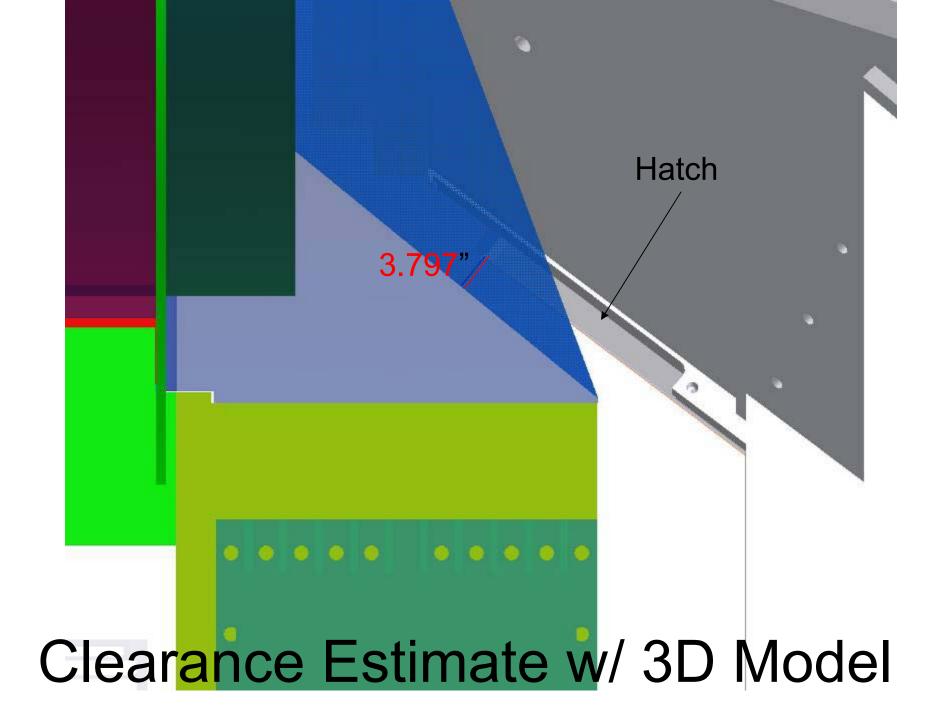
RIKEN/RBRC Itaru Nakagawa



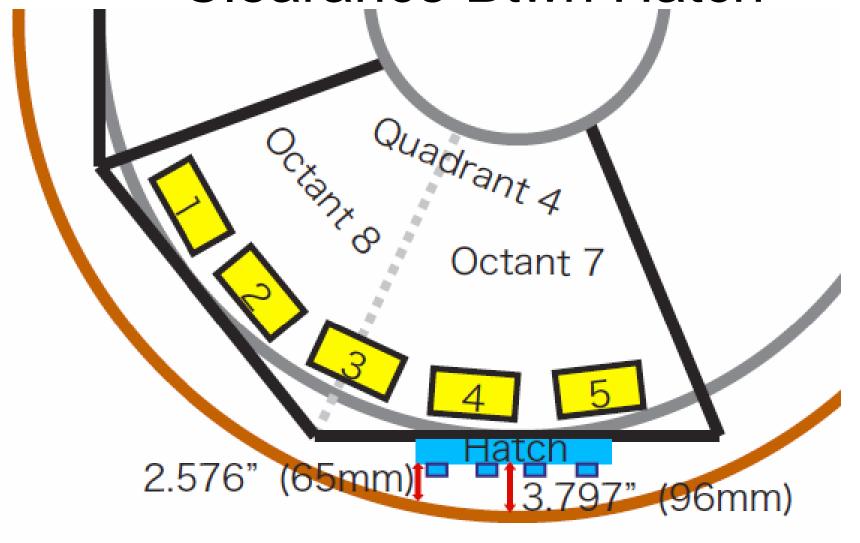


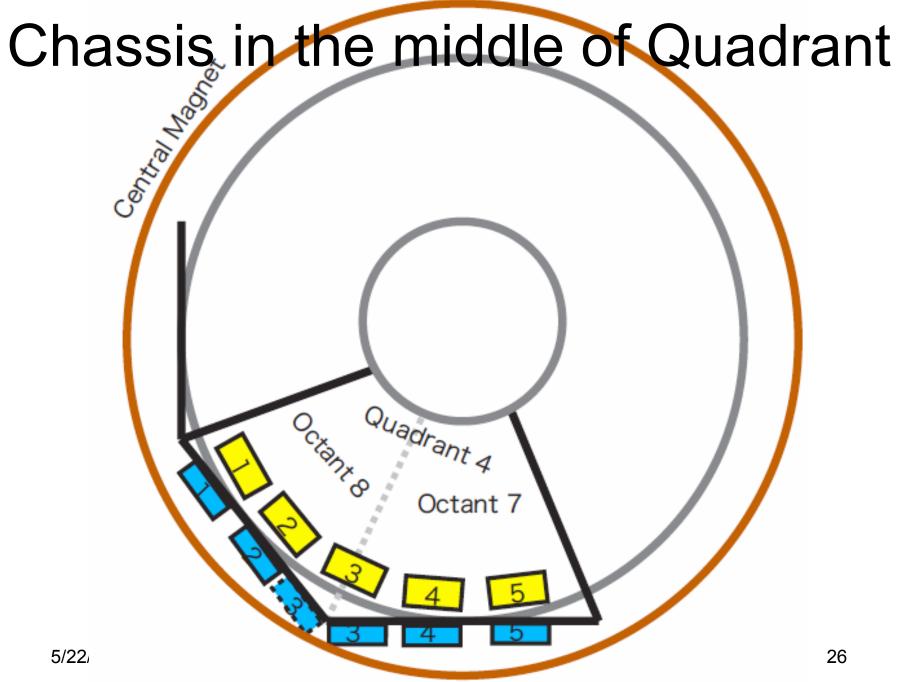


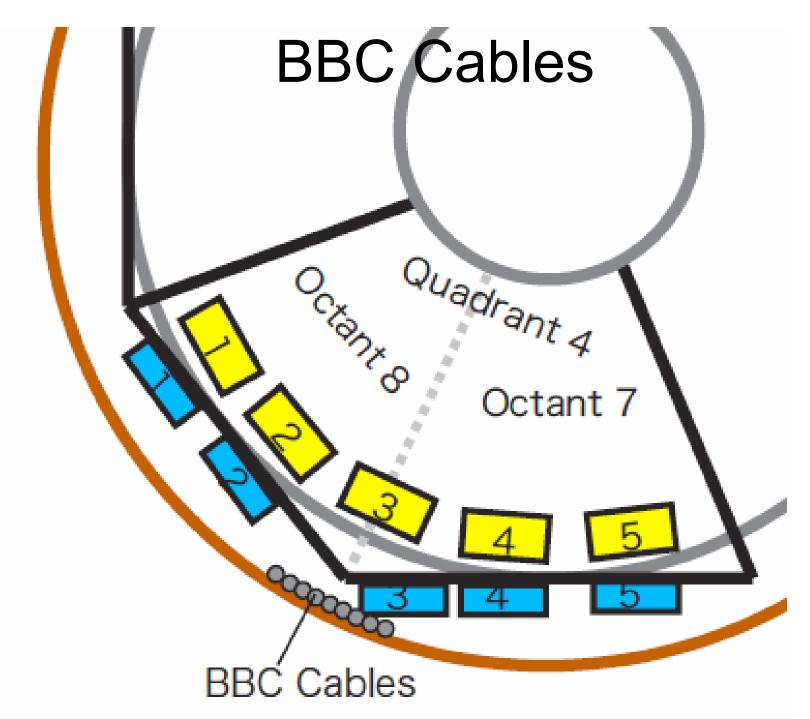
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Clearance Btwn Hatch



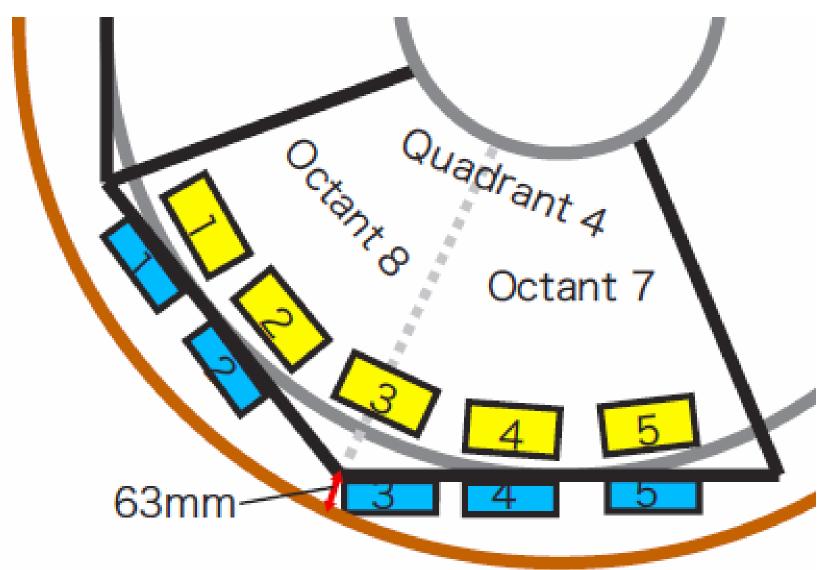




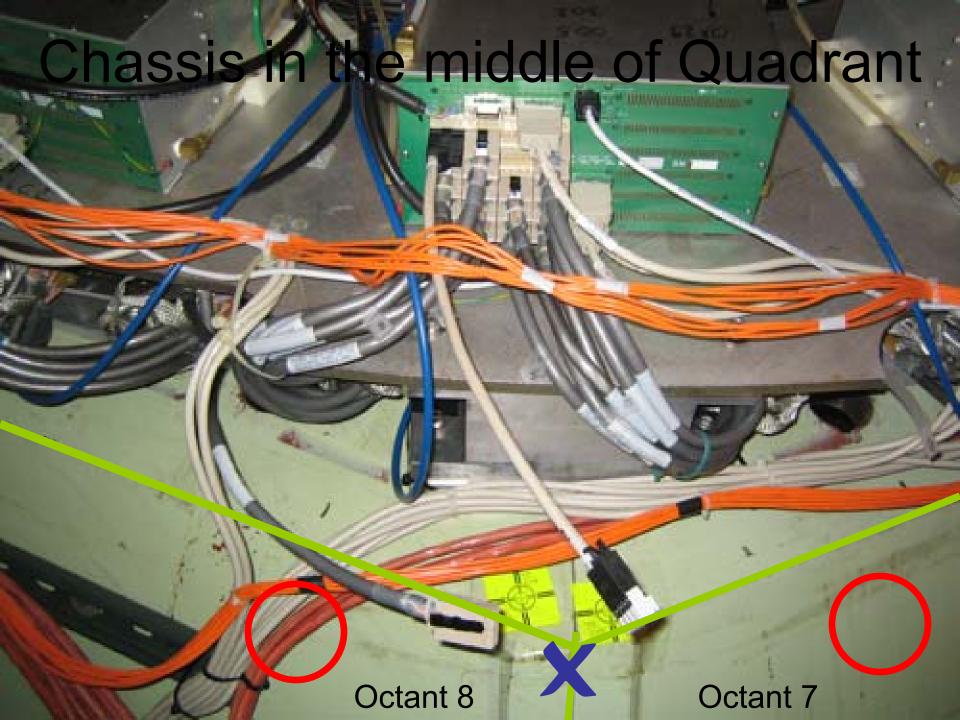
Mid-Quadrant Clearance (3D Model)

2.58" (63mm)

Mid-Quadrant Clearance







Additional LV Channel

	Station-1	Station-2	Station-3	Total
North	20+4	40	56	116+4
LV				
Channel				

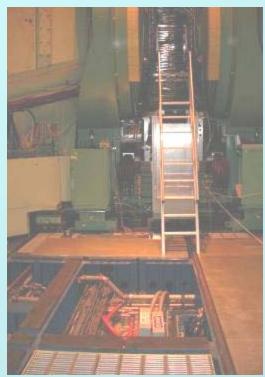
Number of Signal Cables stays same, because number of boards are conserved.

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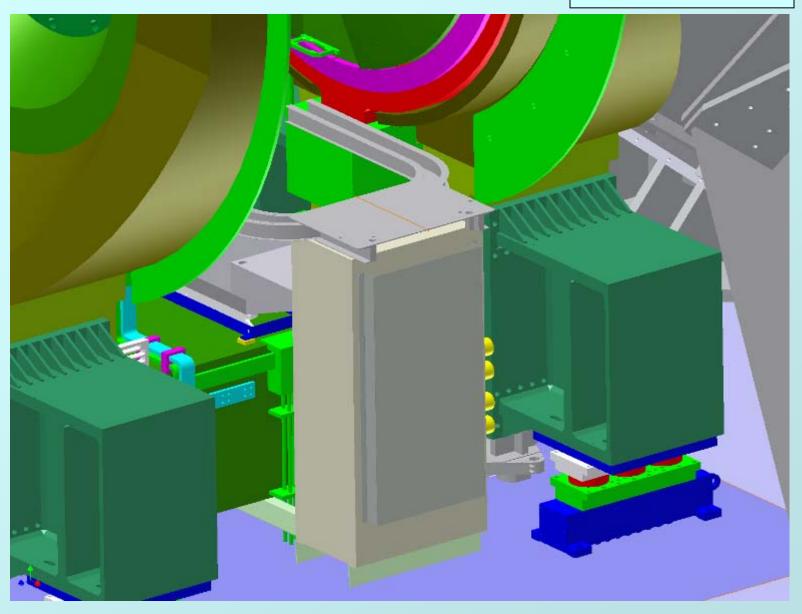
CM Access







CM Access





Safety, Security, etc.

First-aid, DOE-Recordable, and DART Cases 4/23-521

2 Recordable & DART, 1 First Aid

An employee fell while trying to cross the curbing between the west parking lot and the road adjacent to Building 400, injuring a knee and fracturing an ankle. DART & Recordable

An employee was bending over to place a bundle of cardboard on a two-foot tall table when he injured his lower back. First Aid

An employee was walking around a piece of equipment he was working on and tripped over an extension cord. Falling, he struck his right hand against steel scaffolding, injuring the knuckles at the base of the middle and ring fingers. Prescription drugs were prescribed by the treating physician and the employee has lost time. DART & Recordable





Where To Find PHENIX Engineering Info

Monday 5/26 is Memorial Day and a LAB Holiday.

Enjoy your long weekend and remember those who have sacrificed so that we can have all that we have.

Links for the weekly planning meeting slides, long term planning, pictures, videos and other technical info can be found on the web site:



http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm